

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A remote feeder reactance coil for supplying energy to, or withdrawing energy from, a high-frequency signal transmission line, said remote feeder reactance coil comprising:

a primary winding (102); ~~(202)~~ consisting of an electrically conductive material ~~which carries the feed current, as well as an attenuation circuit (118); (218), characterized in that, the primary winding being connected to the high-~~
frequency signal transmission line; and

~~said attenuation circuit (118; 218) includes a secondary winding (112; 212) of conductive material, wherein said secondary winding (112; 212) and said primary winding (102; 202) interact with each other through capacitive, inductive, or capacitive and inductive coupling~~

a suppression circuit including (i) a secondary winding consisting of an electrically conductive material and (ii) a resistive load, wherein the suppression circuit introduces the resistive load along a section of the primary winding, and the resistive load suppresses parasitic resonance frequencies without considerably influencing the characteristics of the remote feeder reactance coil for high-frequency applications.

2. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said primary and said secondary windings ~~(102; 112; 202; 212)~~ have substantially parallel winding axes.

3. (currently amended) The remote feeder reactance coil of claim 2 ~~characterized in that~~ wherein the turns ~~(114)~~ of said secondary winding ~~(112)~~ extend between the turns ~~(110)~~ of said primary winding ~~(102)~~.

4. (currently amended) The remote feeder reactance coil of claim 2 ~~characterized in that~~ wherein the turns ~~(114)~~ of said secondary winding ~~(212)~~ are wound within the turns of said primary winding, below the latter, or outside and on the turns ~~(210)~~ of said primary winding ~~(202)~~.

5. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said conductive material of said secondary winding ~~(122; 212)~~ is a material with an ohmic resistance.

6. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said ~~attenuation circuit (118; 218)~~ resistive load

includes an ohmic resistor (~~116; 216~~) for connecting the terminals of said secondary winding (~~112; 212~~).

7. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said ~~attenuation~~ suppression circuit further includes a foil or a layer of conductive varnish with an ohmic resistance for connecting the terminals of said secondary winding.

8. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said ~~attenuation~~ suppression circuit includes an arrangement of at least one ohmic resistor and one further reactive element for connecting the terminals of said secondary winding.

9. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said ~~attenuation~~ suppression circuit (~~218~~) includes a terminal which is electrically connected to said primary winding (~~202~~).

10. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said primary winding (~~102; 202~~), said secondary winding (112; 212), or said primary winding and said secondary winding comprise one insulated wire.

11. (currently amended) The remote feeder reactance coil of claim 1 ~~characterized in that~~ wherein said primary winding ~~(102; 202)~~ is spirally wound up onto a tubular body ~~(104; 204)~~.

12. (currently amended) The remote feeder reactance coil of claim 11 ~~characterized in that~~ wherein said tubular body ~~(104; 204)~~ ~~is of an electrically insulating material and~~ encompasses a core ~~(106; 206)~~ of ferromagnetic material.

Claim 13 (canceled)

14. (currently amended) The remote feeder reactance coil of claim 2 ~~characterized in that~~ wherein said primary and said secondary windings ~~(102; 112; 202; 212)~~ have a common winding axis.

Claim 15 (canceled)

16. (new) A remote feeder reactance coil for supplying energy to, or withdrawing energy from, a high-frequency signal transmission line, said remote feeder reactance coil comprising:

a primary winding consisting of an electrically conductive material and includes a first terminal connected to the high-frequency transmission line;

a suppression circuit including (i) a secondary winding consisting of an electrically conductive material and (ii) a resistive load, wherein individual turns of the primary winding maintain close proximity to each other in a first and second area of the coil, and are spaced from each other in a third area which extends between said first and second areas.

17. (new) The remote feeder reactance coil of claim 16 wherein the suppression circuit introduces the resistive load along a section of the primary winding.

18. (new) The remote feeder reactance coil of claim 16 wherein the resistive load suppresses parasitic resonance frequencies without considerably influencing the characteristics of the remote feeder reactance coil for high-frequency applications.

19. (new) The remote feeder reactance coil of claim 16 wherein said primary winding is spirally wound up onto a tubular body.

20. (new) The remote feeder reactance coil of claim 19 wherein said tubular body encompasses a core of ferromagnetic material.

21. (new) A remote feeder reactance coil for supplying energy to, or withdrawing energy from, high-frequency signal transmission lines, comprising:

a primary winding of an electrically conductive material which carries a feed current; and

an attenuation circuit including a resistive load and a secondary winding consisting of an electrically insulated conductive material, wherein said secondary winding and said primary winding interact with each other through capacitive and/or inductive coupling, wherein the resistive load eliminates at least one parasitic resonant frequency associated with the primary winding.

22. (new) A signal transmission system, comprising:

a plurality of high-frequency transmission lines; and

a plurality of intermediate amplifiers, wherein said amplifiers are supplied with electrical energy via said transmission lines and the remote feeder reactance coil of claim 21.